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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/267,199

DATE: 03/30/1999  
TIME: 10:01:28

Input Set: I267199.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

1 <110> APPLICANT: Bhat, Barkur G.  
2 Boddupalli, Sekhar S.  
3 Kishore, Ganesh M.  
4 Liu, Jingdong  
5 Rangwala, Shaikat H.  
6 Venkatramesh, Mylavaram  
7 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated Wit  
8 Tocopherol Pathway  
9 <130> FILE REFERENCE: 38-21(15092)B  
10 <140> CURRENT APPLICATION NUMBER: US/09/267,199  
11 <141> CURRENT FILING DATE: 1999-03-12  
12 <150> EARLIER APPLICATION NUMBER: US 60/078,031  
13 <151> EARLIER FILING DATE: 1998-03-16  
14 <160> NUMBER OF SEQ ID NOS: 627  
15 <210> SEQ ID NO 1  
16 <211> LENGTH: 252  
17 <212> TYPE: DNA  
18 <213> ORGANISM: Zea mays  
19 <400> SEQUENCE: 1  
20 ggagttcaac gccacaaca tcagggacac cttccgcgtc ctccctgcaaa tgtccgttgt 60  
21 gctcatgttc ggaggccaga tgcctgtcgt caaggtggga agaattggcag gtcagtttgc 120  
22 gaaccaaggt cagatgggtt tgaggagcgg gatggattga agttgccaag ctatagaggg 180  
23 gacaatatca atggggatgc attcaatggg gagtcaaggt tgccagatcc acaccgcatg 240  
24 ataagggcgt ac 252  
25 <210> SEQ ID NO 2  
26 <211> LENGTH: 123  
27 <212> TYPE: DNA  
28 <213> ORGANISM: Zea mays  
29 <400> SEQUENCE: 2  
30 ttctggacag attgtcacat ggattacaga tcgtatgcat ggaaacacca tcaaggcccc 60  
31 ttgtggcctg aagacgcgtc catttgactc cattctggct gaagtgcgtg cctgcttcga 120  
32 tgt 123  
33 <210> SEQ ID NO 3  
34 <211> LENGTH: 287  
35 <212> TYPE: DNA  
36 <213> ORGANISM: Zea mays  
37 <400> SEQUENCE: 3  
38 gtcaagcaac gtcaccttcg acaacctgag agaccgctac cacacgcaat ggcaccccag 60  
39 gctgaacgcg tcccagtcct tggagctcgc cttcatactc gccgagaagc ttaggaagcg 120  
40 gaggatgcgg cggctcgtcg tggcgtctgg gctcggcggc agcatcttgc ccttgccgcc 180  
41 ctttggttt tgatgtcttg cacgctggct gtgtgcatgc aggggtgcagt gcaggggtgt 240  
42 ggtaggagaa tcttacgttg tcgtttgcct tgctatgtag tatgtaa 287  
43 <210> SEQ ID NO 4  
44 <211> LENGTH: 268

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50     cctcgtcgcc ttgtacacg aaccagctgg gttccattcc atcaatgggt caaaaagcac    180
51     aactaggttc actgtcaagg actagtcctt gggttttgtt tcagctgctg tgtcaaactt    240
52     tgctggcatg cactggtaaa ctagatag                                     268
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60     gcactcgtca actcgtatga gcgcatgttg aattccttcg tgggtgttgc aatcctcttg    180
61     gcataaaggt gagcgacaaa atgaacccca gtgacttggt gaagctgatt gagattctga    240
62     acccttcaaa caaacctgga aggatcacca taattacaag gatgggggca gagaacatga    300
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70     acaactcgat ggagctcatg ttgaattcct ccgtgggtgt gccaaccttc tgggcataaa    120
71     ggtgagcgac aaaatgaacc ccagtgaagt ggtgaagctg attgatattc tgaacccttc    180
72     aaacaaacct ggaaggatca ccataattac aaggatgggg gcagagaaca tgagggtgaa    240
73     gttgcctcat ctcacccgtg ctgttcgcaa tgctggactg attgtcacat ggattactg    299
74 <210> SEQ ID NO 7
75 <211> LENGTH: 269
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80     cctcttggca taaaggtgag cgacaaaatg aaccccgatg acttggtgaa gctgattgag    120
81     attctgaacc cttcaaaca accctggaagg atcaccataa ttacaaggat gggggcagag    180
82     aacatggagt gaagttgcct catctcatcc gtgctgttcg caatgctgga ttaattgtca    240
83     catggattac tgatcctatg catggaaac                                     269
84 <210> SEQ ID NO 8
85 <211> LENGTH: 310
86 <212> TYPE: DNA
87 <213> ORGANISM: Zea mays
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91     gattgttcgg ccacatgct gtgggttggt gagcgactc gtcaactcga tggagcgcat    180
92     gttgaattcc ttcgtggtgt tgccaatcct cttggcataa agtgagcgac aaaatgaacc    240
93     ccagtgaact ggtgaagctg attgagattc tgaacccttc taacaaacct ggaaggatca    300
94     ccataattac                                     310

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# RAW SEQUENCE LISTING PATENT APPLICATION US/09/267,199

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98  <213> ORGANISM: Zea mays
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101      ccctacgagc aggcctcttac ccgtgaggat tccaccagtg gccttttcta tgattgttcg      120
102      gccacatgt tgtgggttg tgagcgact cgacaactcg atggagctca tgttgaattc      180
103      ctccgtggtg ttgccaaccc tctgggcata aaggtagcg acaaaatgaa cccagtgag      240
104      ttggtgaagc tgattgatat tctgaaccct tcaaacaaac ctggaaggat ca      292
105  <210> SEQ ID NO 10
106  <211> LENGTH: 332
107  <212> TYPE: DNA
108  <213> ORGANISM: Zea mays
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110      aagcgactc gtcaactcga tggagcgcat gttgaattcc ttcgtggtgt tgccaatcct      60
111      cttggcataa aggtgagcga caaaatgaac cccagtgact tgggtgaagct gattgagatt      120
112      ctgaaccctt caaacaaccc tggaaggatc accataatta caaggatggg ggcagagaac      180
113      atgagagtga agttgcctca tctcatccgt gctgttcgca atgctggatt aattgtcaca      240
114      tggattactg atcctatgca tggaaacacc atcaaggcgc cttgtggcct gaagactcgt      300
115      ccattcgact caattctggc tgaagtgcgc gc      332
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120  <400> SEQUENCE: 11
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123      attctgaacc cttcaacaa acctggaagg atcaccataa ttacaaggat gggggcagag      180
124      aacatgagag tgaagttgcc tcatctcatc cgtgctgttc gcaatgctgg attaattgtc      240
125      acatggatta ctgatcctat gcattgaaac accatca      277
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127  <211> LENGTH: 272
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129  <213> ORGANISM: Zea mays
130  <400> SEQUENCE: 12
131      attctggacc tcgcacgagt gccttctctt accctacgag caggatctga cccgtgagga      60
132      ttccagcagt ggccttttct atgattgttc ggcccagatg ttgtgggttg gtgagcgcac      120
133      tcgacaactc gatggagctc atgttgaatt cctccgttgt gttgccaagc ctctgggcat      180
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140  <220> FEATURE:
141  <223> OTHER INFORMATION: unsure at all n locations
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144      aattccttcg tgggtgtgcc aatcctcttg gcataaaggt gagcgacaaa atgaacccca      120

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149 <212> TYPE: DNA  
150 <213> ORGANISM: Zea mays  
151 <400> SEQUENCE: 14  
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153 gtggtgttgc caaccctctg ggcataaagg tgagcgacaa aatgaacccc agtgagttgg 120  
154 tgaagctgat tgatattctg aacccttcaa acaaacctgg aaggatcacc ataattacaa 180  
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157 <211> LENGTH: 267  
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163 atgtagcgca tgttgaattc cttcgtggtg ttgccaatcc tcttggcata aagggtgagcg 180  
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165 ctggaaggat caccataatt acaagga 267  
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173 tacgagcagt ctcttacctg taaagactcc accagtggcc ttttctacga ttgttcggcc 180  
174 cacatgttgt gggttggtga ggcactcgt caactcgatg gagcgcagt tgaattcctc 240  
175 cgtggtgttg ccaaccctct tggcataaag gcgagcgaca aaatgaaccc cagtgacttg 300  
176 gtgaagctg 309  
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184 aaggccctt gtggcctgaa gactcgtcca tttgactcca ttctggctga agtgcgtgcc 180  
185 ttcttcgatg tgcattgacca agaaggaagc caccctgggg gcgtccacct tgaaatgact 240  
186 gggcagaacg tgaccgagtg catcggtgga tcacggaccg tgaccttcga cgatct 296  
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194 cttgaaatga ctgggcagaa cgtgaccgag tgcattggtg gatcacggac tgtgaccttc 180

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# RAW SEQUENCE LISTING PATENT APPLICATION US/09/267,199

DATE: 03/30/1999  
TIME: 10:01:28

Input Set: I267199.RAW

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203      aataggccca tagggtggat gatgctcttg ggttcatgac tgcacgaggg cttacagtcg 120
204      accacccgat aatgacgact actgacttct ggacctcgca cgagtgcctt ctcttaccct 180
205      acgagcaggc tcttaccctg gaggattcca ccagtggcct tttctatgat tgttcggccc 240
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215      accagtggcc ttttctacga ttgttcggcc cacatgttgt gggttggtga gcgcactcgt 180
216      caactcgatg gagcgcatgt tgaattcctc cgttgtgttg ccaaccctct tggcataaag 240
217      gtgagcgaca aaatgaaccc cagtg 265
218      <210> SEQ ID NO 21
219      <211> LENGTH: 232
220      <212> TYPE: DNA
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222      <400> SEQUENCE: 21
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224      cgagcagtcct ctaccctgta aagactccac cagtggcctt ttctacgatt gttcggccca 120
225      catgttgttg gttggtgagc gcaactcgta actcgatgga gcgcactcga caactcgatg 180
226      tgggtgttgc aaccctcttg gcataaagggt gagcgacaaa atgaacccca gt 232
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234      acgagtgcct tctcttacc tgcagcagg ctcttaccctg tgaggattcc accagtggcc 180
235      ttttctatga ttgttcggcc cacatgttgt gggttggtga gcgcactcga caactcgatg 240
236      gagctcatgt tgaattcctc cgtggtgttg ccaaccctct gggcataaag gtgagcgaca 300
237      aaatgaaccc cagtgagttg 320
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244      tgatattctg aaccottcaa acaaacctgg aaggatcacc ataattacaa ggatgggggc 120

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



Input Set: I267199.RAW

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517	W "N" or "Xaa" used: Feature required	gtcgaccacc cgataatgac gactactgac ttctggac
740	W "N" or "Xaa" used: Feature required	gtttataaat tctcatgntt ccgacccttg catgctat
826	W "N" or "Xaa" used: Feature required	cggtaatggt gacttctggc cgcctagtcc gaagcagg
827	W "N" or "Xaa" used: Feature required	ctagttgnaa tcctccgtgg tgttgccaac cctctggg
846	W "N" or "Xaa" used: Feature required	tgtggccctg agactcgtnc atttgactca attctggc
896	W "N" or "Xaa" used: Feature required	ncatttgact caattctggc tgaagtgcgc gcattctt
897	W "N" or "Xaa" used: Feature required	agtcacccca gaggcattca ccttgaaatg actgngca
937	W "N" or "Xaa" used: Feature required	gggctcaaca gcagcctgcc actgccnca ctggcttt
1196	W "N" or "Xaa" used: Feature required	attccggatc cgcataaggat gatnagggt tatcgcca
1215	W "N" or "Xaa" used: Feature required	ctccctcatt cccaccaaatt ctctantccc ccaatccc
1216	W "N" or "Xaa" used: Feature required	gcccgccttc cggcccaagc ccggcccatc acctcca
1218	W "N" or "Xaa" used: Feature required	ggcctcggcc cgggcaacga aatgggccgt ggacagct
1289	W "N" or "Xaa" used: Feature required	gggttagtga cnccatgcat gggaacacca
1301	W "N" or "Xaa" used: Feature required	accgctcttt tgang
1310	W "N" or "Xaa" used: Feature required	tgcgagtga gcttcncaca tcttatcagg gcngttcg
1311	W "N" or "Xaa" used: Feature required	tggtnnagt accccatgca tgggaacacc attaaagc
1312	W "N" or "Xaa" used: Feature required	tntntgatg caataagggc tgagctgagg gcnttnnn
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1422	W "N" or "Xaa" used: Feature required	gagcttgta gactcantgn natcttgaat ccccaaaa
1423	W "N" or "Xaa" used: Feature required	attacnanga tgggagctgn aaatatgagg gtgaagct
1425	W "N" or "Xaa" used: Feature required	gctccatgng gtcttaaaac ttcgcccctt cgattcat
1426	W "N" or "Xaa" used: Feature required	tttgnngtgc acgagcaaga aggaagccac ccaggang
1486	W "N" or "Xaa" used: Feature required	cgcttcagct tccggagtac ccagatgcga atgaattg
1487	W "N" or "Xaa" used: Feature required	cttctttccc ccaatngt
1573	W "N" or "Xaa" used: Feature required	cccaggtcga agatactggt ttccnaacca gcctgaca
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1577	W "N" or "Xaa" used: Feature required	agttgattac acanacttct ttcgtacgct ttcaac
1655	W "N" or "Xaa" used: Feature required	gtggagttgc acgtcttcgc agccacggtc tagtaatc
1661	W "N" or "Xaa" used: Feature required	tgggtctgtg agactcatcc ttctgaaagg accgctan
1852	W "N" or "Xaa" used: Feature required	aatgagat gtaaggggtt ctctggaaga gattgcat
1898	W "N" or "Xaa" used: Feature required	cttggtgnta atgatggcct ctgggaagac aactnggg
1899	W "N" or "Xaa" used: Feature required	tcttattcgt tttannatag tgatgcattg gtggtgaa
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1901	W "N" or "Xaa" used: Feature required	agaaggtgtc aataatggca tagacatctt atttctac
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2003	W "N" or "Xaa" used: Feature required	ttgacancan ctgtggttgc tgcaggtgga aatgcaag
2004	W "N" or "Xaa" used: Feature required	cgaatgagag agaggccaat tggggatttg gttgctgg
2006	W "N" or "Xaa" used: Feature required	tcaacgtnaa cgacgagaat tac
2054	W "N" or "Xaa" used: Feature required	ctgatttctg ttccatagt tganatgact ctgaagtt
2067	W "N" or "Xaa" used: Feature required	gaaattgaga ttgttgataa actgatttct gttccata
2068	W "N" or "Xaa" used: Feature required	atggagcgtt ttngagtttc tgtggaacac agtggtaa
2069	W "N" or "Xaa" used: Feature required	ggaggtcana agtacaagtc tcctggnaat gcttttgt
2070	W "N" or "Xaa" used: Feature required	agttatttac tancgtgtgc agcaantact gnnnggac
2071	W "N" or "Xaa" used: Feature required	acaaacagtt tacagggaga tgtaaaattt gcngnagt
2416	W "N" or "Xaa" used: Feature required	ggggtcgtca catgcattgc angaaatgtt cctcgtgg
2449	W "N" or "Xaa" used: Feature required	ttctcttcca atggcgtctt ctctttccac ccaacctt
2483	W "N" or "Xaa" used: Feature required	gatcttctgc aagagaaaca attggnaggg ttgcttct

Input Set: I267199.RAW

Line	? Error/Warning	Original Text
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2575	W "N" or "Xaa" used: Feature required	gagacttcag atacgggctg ctgggagnnt ctatggaa
2576	W "N" or "Xaa" used: Feature required	tggncgaatc acatggagga ggtgttggtt gtattatt
2580	W "N" or "Xaa" used: Feature required	tactgagatg gcagtagctt ataggccttc ccatgcag
2609	W "N" or "Xaa" used: Feature required	atggagaatc acatggagga ggtgttggtt gtattatt
2610	W "N" or "Xaa" used: Feature required	ctctctccga agctgatatg caattggatc ttgacaga
2619	W "N" or "Xaa" used: Feature required	ctctttccac caaaccattc acaccgncg ctctctcc
2641	W "N" or "Xaa" used: Feature required	tctaattctc ccatttctct tccaatggcg tcttctct
2645	W "N" or "Xaa" used: Feature required	tgtgttattg atggagtctc ctgccttct tctctctg
2684	W "N" or "Xaa" used: Feature required	agatactgtg agtgtttttn ttctcaatc aatctaata
2835	W "N" or "Xaa" used: Feature required	aggggnnnna aatttagctg atatacttgc atgtctgt
3101	W "N" or "Xaa" used: Feature required	cttgccaca ttgcccctgg gttgaccata ngatcact
3162	W "N" or "Xaa" used: Feature required	ggcgatgctt gctgcctctg gtgcaaacat cnttccaa
3225	W "N" or "Xaa" used: Feature required	tgnngagatc acccanaagt cttacccta tctggctt
3228	W "N" or "Xaa" used: Feature required	accatcgaa agtggaaca gattaggcag ctgatgag
3229	W "N" or "Xaa" used: Feature required	tttgacagtg cctatcaagg ctttgcaagt cggagtct
3304	W "N" or "Xaa" used: Feature required	gaccacnagt ggtccaccga ttggactctg gacntgaa
3305	W "N" or "Xaa" used: Feature required	aacatgaggc aacaactatt tatgcgtga atccagag
3626	W "N" or "Xaa" used: Feature required	tgcaaggcac tatcacgagc gcaactatc catccac
3706	W "N" or "Xaa" used: Feature required	cagacaccac cgccacctcc anctcgaat cgttcccc
3795	W "N" or "Xaa" used: Feature required	agctgcttta gctactaac tcgnaatcga ctgcacag
3796	W "N" or "Xaa" used: Feature required	actctcgaat cgttcccacc atggcgctgc agcngatc
3797	W "N" or "Xaa" used: Feature required	cgagcgaggc actcgggagg gacncgatg cctccgga
3798	W "N" or "Xaa" used: Feature required	gacataagga tccccagct cccagtana ngggtcaa
3799	W "N" or "Xaa" used: Feature required	acgtcggacc gaggggaaggg aagctcctag tgctgaac
3821	W "N" or "Xaa" used: Feature required	atcctccgtc ttccgcccac tcgagcaggc cccggagg
3840	W "N" or "Xaa" used: Feature required	ctcgaatcgt tcnccaccat ggcgtcgcag ggatcctc
3841	W "N" or "Xaa" used: Feature required	gcaccggagg actccatcct cggagtgacc gttgccta
4137	W "N" or "Xaa" used: Feature required	cttttctcgg atggacatcc agttgctana gatttcaa
4155	W "N" or "Xaa" used: Feature required	gctccttcag gttcaattgt actgctgna tgctgtg
4171	W "N" or "Xaa" used: Feature required	gatangatca ttaacatgag gcaacaacta tttaatgc
4204	W "N" or "Xaa" used: Feature required	ccagangaac cctgggtg
4212	W "N" or "Xaa" used: Feature required	tttgganatc acccaaaagt cttacccta tctggctt
4245	W "N" or "Xaa" used: Feature required	cgaacttctc atggctcaga gctacgctaa gancatgg
4246	W "N" or "Xaa" used: Feature required	cgctttgagc attgtatgtn aaagtgccga ttagctg
4249	W "N" or "Xaa" used: Feature required	taggncttta acatgaggca acaactattt aatgcgct
4317	W "N" or "Xaa" used: Feature required	tttgagcatt gtatgtaaaa gtgccgatnt agctgtta
4318	W "N" or "Xaa" used: Feature required	tgtcancagg cctatgtatt caaacctcc tcttcatg
4319	W "N" or "Xaa" used: Feature required	annncaggac agcgagatgt tcaacgaatg gactctgg
4388	W "N" or "Xaa" used: Feature required	cggaacgctg gttntaatgc gctgaaatcc agaggaac
4389	W "N" or "Xaa" used: Feature required	aanaagcaaa ttgggatgtt tactttcact gggctgaa
4439	W "N" or "Xaa" used: Feature required	tggggaaatc acccaaaagt cttacccta tctggctt
4636	W "N" or "Xaa" used: Feature required	gccagctgaa acgattggca cgtcccatgt nttcgaa
4637	W "N" or "Xaa" used: Feature required	nggttggnaa cnttggtggt gatgcaacca ntgtttgg
4638	W "N" or "Xaa" used: Feature required	tctaantgct tgancganc naagatngta ananaaaa
4639	W "N" or "Xaa" used: Feature required	aaaggncaaa aaccgcaaga actgggnttt tatttnna
4640	W "N" or "Xaa" used: Feature required	anacggnttt aaaaaaannc antgggnaac attgcggn
4641	W "N" or "Xaa" used: Feature required	angnnggggg gatttgnaaa natgggntnt cctgggtt
4662	W "N" or "Xaa" used: Feature required	gctagcagcc gctcctcgt caggccttt ttnttca
4663	W "N" or "Xaa" used: Feature required	nggtccgaac tccgtctgct tcatctgagc gtccggga

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Line	Error/Warning	Original Text
4665	W "N" or "Xaa" used: Feature required	cgctgcggcc gtccaaaacc atggccatca cccgatnag
4666	W "N" or "Xaa" used: Feature required	gcgtgccggt tatcggtcta gccgcggggg agccagac
4667	W "N" or "Xaa" used: Feature required	gnngangccc ggattgatgc aattaggaat gggtatac
4668	W "N" or "Xaa" used: Feature required	gacttttgaa ctgangaang ggtattnta ctaaaact
4669	W "N" or "Xaa" used: Feature required	taacttccaa atnaaggtct tngtaacaan ggaactaa
4736	W "N" or "Xaa" used: Feature required	gtncgcagtt taggaacggt agcctgtcag tacgcgtc
4781	W "N" or "Xaa" used: Feature required	taagcttatac tttggcgctg acagccctgc tattcagg
4795	W "N" or "Xaa" used: Feature required	agcgctaagc ttatctttgg cgctgacagc cctgctat
4864	W "N" or "Xaa" used: Feature required	tgagggtgga gagtgaattg aannttccca gtctcnca
4916	W "N" or "Xaa" used: Feature required	ggggggntaa agggggantt tattggaacc ccaattcc
4917	W "N" or "Xaa" used: Feature required	gcaacatgca gccttcactt cgaaggactc ctggaaga
4918	W "N" or "Xaa" used: Feature required	tcaatngtac tgctgcatgc ctgtgctcac aaccctac
4922	W "N" or "Xaa" used: Feature required	ggagagcgty tttggcgctt gagcattgna tgtaaaag
4923	W "N" or "Xaa" used: Feature required	gaaagtcaac tcaaacttgn catcaggcct atgtattc
4924	W "N" or "Xaa" used: Feature required	tctatcgnty ctacat
4948	W "N" or "Xaa" used: Feature required	tggctgatag gatcattaac atgangcaac aactatnt
4949	W "N" or "Xaa" used: Feature required	acccttggtg attggagcca tatcattaaa gcaaattg
4950	W "N" or "Xaa" used: Feature required	cngaaataa cgaagcnngg tcggccnntt cangaggg
4983	W "N" or "Xaa" used: Feature required	ttggcgctt gagcattgta ngtaanagtg cccatgta
4984	W "N" or "Xaa" used: Feature required	tcaantttgt catcaggcnn atgtattcaa accctcct
4985	W "N" or "Xaa" used: Feature required	ctaccatnct caggacagc gagatgttca nccaatgg
4986	W "N" or "Xaa" used: Feature required	ctgataggat cattaacang aggcaacaac tatttaat
4987	W "N" or "Xaa" used: Feature required	ctggtgantg gagccatntc ngttaagnca aattggga
4988	W "N" or "Xaa" used: Feature required	naagtaagcg aaacagnntn cgncccttcc cggngggc
5020	W "N" or "Xaa" used: Feature required	acaaaganaa taccgacatt at
5087	W "N" or "Xaa" used: Feature required	gccgaaaggn ttggngcaat caatgtggtt tcatcatc
5088	W "N" or "Xaa" used: Feature required	nanagtcagt tgtaaggatt gcccgaccan gtactcta
5089	W "N" or "Xaa" used: Feature required	agtnccgtgt gttggaanca gtccttatga tgaagnca
5090	W "N" or "Xaa" used: Feature required	tagcacgtat agtattatc aagacanag
5165	W "N" or "Xaa" used: Feature required	cggggctagg atagtngccg atgttggttg aaaccag
5239	W "N" or "Xaa" used: Feature required	aagttgcng atgaaaataa ttgacacaaa tcttcagt
5257	W "N" or "Xaa" used: Feature required	attaagcaac attttactgn tgtatataag tggagagt
5302	W "N" or "Xaa" used: Feature required	cccttttccc cataagatca atcttggnaa aggtactt
5336	W "N" or "Xaa" used: Feature required	taagatcaaa agctttgtta ctttctttga cagtgcct
5345	W "N" or "Xaa" used: Feature required	attgttttgc tacatgcatg cgcacataac nacactgg
5368	W "N" or "Xaa" used: Feature required	acccactgg tgtggatcca acccttgagc aatgggag
5379	W "N" or "Xaa" used: Feature required	gcggactata tacttgccaa caccaacttg gggcaatc
5382	W "N" or "Xaa" used: Feature required	gcacataacc ccactggtgt ggatccaacc cttgagca
5383	W "N" or "Xaa" used: Feature required	ataagatcaa aagctttgtt actttctttg acagnct
5447	W "N" or "Xaa" used: Feature required	aaagaatctg ggtctttatg gggaacngt tggcgctt
5458	W "N" or "Xaa" used: Feature required	aagctttgnt acctttcttt gacagtgcnn atcagggg
5459	W "N" or "Xaa" used: Feature required	gcngatggcc caacctgttc gttgtntgt tgntgatg
5460	W "N" or "Xaa" used: Feature required	aagctatgcn aagaatctgg gtcttnatgg ggaacgtg
5461	W "N" or "Xaa" used: Feature required	caagtcantc gatgttgcaa gcaggggtga gagccagc
5551	W "N" or "Xaa" used: Feature required	acgcacaagg ganagcccat gcttgagggc aacacttt
5602	W "N" or "Xaa" used: Feature required	ctacaacaca cttttttaag tgattcggtc gcagaaac
5603	W "N" or "Xaa" used: Feature required	cagcttcgca cgctgtctca nctcttggtc tctgtcca
5606	W "N" or "Xaa" used: Feature required	gcnc
5624	W "N" or "Xaa" used: Feature required	tgccgaattc cgctcgagct cgagccggtt tccntcat
5646	W "N" or "Xaa" used: Feature required	tgttctgttc tgnctgna catctcgtna atcgnnta



Input Set: I267199.RAW

Line	? Error/Warning	Original Text
5647	W "N" or "Xaa" used: Feature required	tgcagctggg cttctncgtt tatntaccgc agcttngc
5648	W "N" or "Xaa" used: Feature required	tctgtnnacc angcacaagg gaaagcacat gcttggag
5649	W "N" or "Xaa" used: Feature required	aggncccaat tccttctcta gttcaaggtc tagaggtc
5650	W "N" or "Xaa" used: Feature required	taatgtatct cggtttgaag gcatacctat ng
5668	W "N" or "Xaa" used: Feature required	agaaacatgg cttcgtcggg tctctccgca gcttcgca
5669	W "N" or "Xaa" used: Feature required	nctgtncacc acgcacaagg gnaagcccat gantagag
5670	W "N" or "Xaa" used: Feature required	aggaccaat tccttctcna gttcaaggtn tagaggtc
5671	W "N" or "Xaa" used: Feature required	taacgnttct cgggttngag gcatacctat gggcgcct
5672	W "N" or "Xaa" used: Feature required	tttctgaggn atntaagggtg gaccaatagt ggtgtnc
5740	W "N" or "Xaa" used: Feature required	cttgggagtt ggggcataca gaacagaaga actacagc
5820	W "N" or "Xaa" used: Feature required	ctgtgatcgc agactcaaca ctctcgctag acanttcc
5821	W "N" or "Xaa" used: Feature required	cagcatctcc gcttctccaa cctccgcttc tgattccg
5822	W "N" or "Xaa" used: Feature required	tccgaagat cctatcctcg gggtaactnt ngcttata
5833	W "N" or "Xaa" used: Feature required	gaatgtagt angcgagttg aacagcaact cataaatg
5893	W "N" or "Xaa" used: Feature required	accaccctgt gatngcagac tcaacactct cgctagac
5894	W "N" or "Xaa" used: Feature required	tcangacagc atctccgctt ctncaacctc cgcntctg
5895	W "N" or "Xaa" used: Feature required	nngnnctcnc naanatccta tncctggggg aactnnag
5914	W "N" or "Xaa" used: Feature required	gttcatcgca gactcaacac tctctccaga cacttcc
6007	W "N" or "Xaa" used: Feature required	atccaagtcc agttaanctc aacttgggan ttggtgtt
6008	W "N" or "Xaa" used: Feature required	ctcttgtttt gaatgtagt aggcgagttg agcagcaa
6009	W "N" or "Xaa" used: Feature required	acaagnattt nccncgtggg gggg
6066	W "N" or "Xaa" used: Feature required	gcaaagcacc ccaggntcnt ggttntctcc gatgaaat
6067	W "N" or "Xaa" used: Feature required	ccagcaactg cacacaagtt ttgcatcttt accaggan
6068	W "N" or "Xaa" used: Feature required	gaatggattt tccaaggcct ttgcaatgan tggttggc
6118	W "N" or "Xaa" used: Feature required	agaatgattc gcttaatcac gagtacctcc ccgtgttg
6119	W "N" or "Xaa" used: Feature required	ctgctgtcac tcttttgctc ggtgacgtcg agacttcc
6120	W "N" or "Xaa" used: Feature required	ctttnggagt gcaaacactg ngtgggtatgg agcatang
6121	W "N" or "Xaa" used: Feature required	aattcncata nannanattt
6155	W "N" or "Xaa" used: Feature required	gaggaaggaa aacctcttgt ttttgatgta gtgaggcg
6171	W "N" or "Xaa" used: Feature required	ctgcagtgca tgctntatct gngactgggtg catgt
6254	W "N" or "Xaa" used: Feature required	ccactgttca atgctngtct ggaactgggt ctttaaga
6280	W "N" or "Xaa" used: Feature required	tgtcgcttac aacaaagatc cangtccagt taagctca
6295	W "N" or "Xaa" used: Feature required	tgacgtgtca cgcaacangg aatatattcc gattgttg
6346	W "N" or "Xaa" used: Feature required	ttgttgacag anatgatcag ggcactctgc ttcagatt
6347	W "N" or "Xaa" used: Feature required	ggccantcga tattcataga gataattcag aggatcgg
6348	W "N" or "Xaa" used: Feature required	gggaagggtg acatccangg tncatgtggg ggttttgg
6416	W "N" or "Xaa" used: Feature required	cgacgccgnc acctgccttg ccttcgctgc caaacacg
6425	W "N" or "Xaa" used: Feature required	gacntggctg tccggcgccc attttcagct ccctgatc
6426	W "N" or "Xaa" used: Feature required	nntggcttcg ccgagggtt tcctttcccc gacagcat
6550	W "N" or "Xaa" used: Feature required	gngatttaag aagttcaatt ctttactcaa actttgtg